Soham Sunilrao Deshmukh

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SUMMARY

Final-year IT student (Batch of 2027) who loves building software that real people use. My exam platform, ProctorLock, handled **100+ students taking tests at the same time** during an AWS exam-prep event, and my learning app, M-Vidya, has **225+ automated tests** behind it. AWS Certified Solutions Architect, AWS Student Builder Campus Leader, former Data Engineering intern, and **300+ LeetCode** problems solved.

EDUCATION

Sanjivani College of Engineering, Kopargaon Aug 2023 – Jul 2027
Bachelor of Technology in Information Technology | *CGPA: 8.27/10* *Maharashtra, India*
Relevant Coursework: Data Structures & Algorithms, OOP, Operating Systems, Computer Networks, DBMS

EXPERIENCE

Celebal Technologies Jun 2026 – Aug 2026
Data Engineering Intern, Celebal Excellence Internship (CEI) *Remote*

- Built Python, Pandas, and PySpark workflows to clean, validate, and aggregate structured data into Parquet and Delta Lake (MERGE upserts); wrote SQL analytics with CTEs, joins, and window functions.
- **Capstone:** Engineered a Raw → Bronze → Silver → Gold (Medallion) ETL pipeline over **10,000** synthetic customers and **50,000 transactions**, with validation gates for schema, duplicates, and referential integrity.
- Kept sensitive payment data out of analytics layers by removing CVVs, masking PII, and applying salted **SHA-256 tokenization**; loaded PostgreSQL through atomic table replacement so every run is **idempotent**.
- Containerized the pipeline with Docker Compose and added Pytest coverage for validation and privacy rules.

PROJECTS

ProctorLock – Secure Online Examination Platform | *FastAPI, PostgreSQL, Docker, AWS* Live Demo

- Supported **100+ concurrent live test sessions** at an AWS Student Builder Group event; hosts **16+ practice tests**.
- Built containerized REST APIs for auth, exam management, and candidate sessions with role-based access control.
- Enforced configurable integrity policies (full-screen, tab-switch limits, focus tracking) with encrypted audit logs.

M-Vidya – Personalized Learning Platform | *FastAPI, Next.js, PostgreSQL, AWS Bedrock* Live Demo

- Built a full-stack learning platform that keeps learner analytics deterministic and separate from LLM-generated explanations (AWS Bedrock, RAG), so recommendations stay reproducible and testable.
- Designed a **7-factor scoring engine** (skill gaps, prerequisites, difficulty, goals, interests, format, quality) that ranks **6,000+ curated resources** into personalized learning roadmaps.
- Isolated each user's data with JWT verification and PostgreSQL Row-Level Security, failing closed on auth errors.
- Wrote **225+ unit and integration tests** across scoring, auth, assessments, and AI-provider integrations.

CommunityOps – AI Event Operations Agent | *Python, AWS Lambda, DynamoDB, Bedrock* Live Demo

- Built a serverless multi-agent system (Strands Agents, Bedrock) with **30 typed tools** automating speaker coordination, tasks, incidents, and check-in via API Gateway, EventBridge, and Step Functions.
- Secured it with Cognito and Cedar policies, tenant isolation, human-in-the-loop approvals, audit logs, and **HMAC-SHA256**-signed QR check-in with deterministic recovery.

TECHNICAL SKILLS

Languages: Python, Java, SQL | **Tools:** Git, GitHub, Docker, Docker Compose, Linux, CI/CD
Frameworks & Testing: FastAPI, Spring Boot, Node.js, Express.js, Next.js, REST APIs, JWT, Pytest
AWS: EC2, Lambda, API Gateway, S3, DynamoDB, IAM, VPC, ALB, Auto Scaling, EventBridge, Step Functions, Bedrock
Databases & Data: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, PySpark, Pandas

ACHIEVEMENTS & CERTIFICATIONS

- **Problem Solving:** 300+ problems solved on LeetCode; CodeChef 3-Star; HackerRank 5-Star (SQL).
- AWS Certified Solutions Architect – Associate; AWS Certified AI Practitioner; AWS Certified Cloud Practitioner.
- **Other Certifications:** SAP Certified Back-End Developer – ABAP Cloud; NPTEL Silver Medalist (Top 5%).
- **Award:** 2nd Prize, DIPEX 2026 State-Level Engineering Project Exhibition.

LEADERSHIP

AWS Student Builder Campus Leader | *Sanjivani College of Engineering* Aug 2026 – Present
AWS Cloud Club Captain & AWS Student Builder Group Leader Feb 2025 – Aug 2026

- Led a **1,000+ member** student cloud community through AWS, DevOps, and AI workshops, hackathons, and hands-on labs; recognized as a **Diamond AWS Cloud Club Captain**.
- Mentored **100+ students** through AWS certification prep with learning paths, labs, and mock tests on ProctorLock.